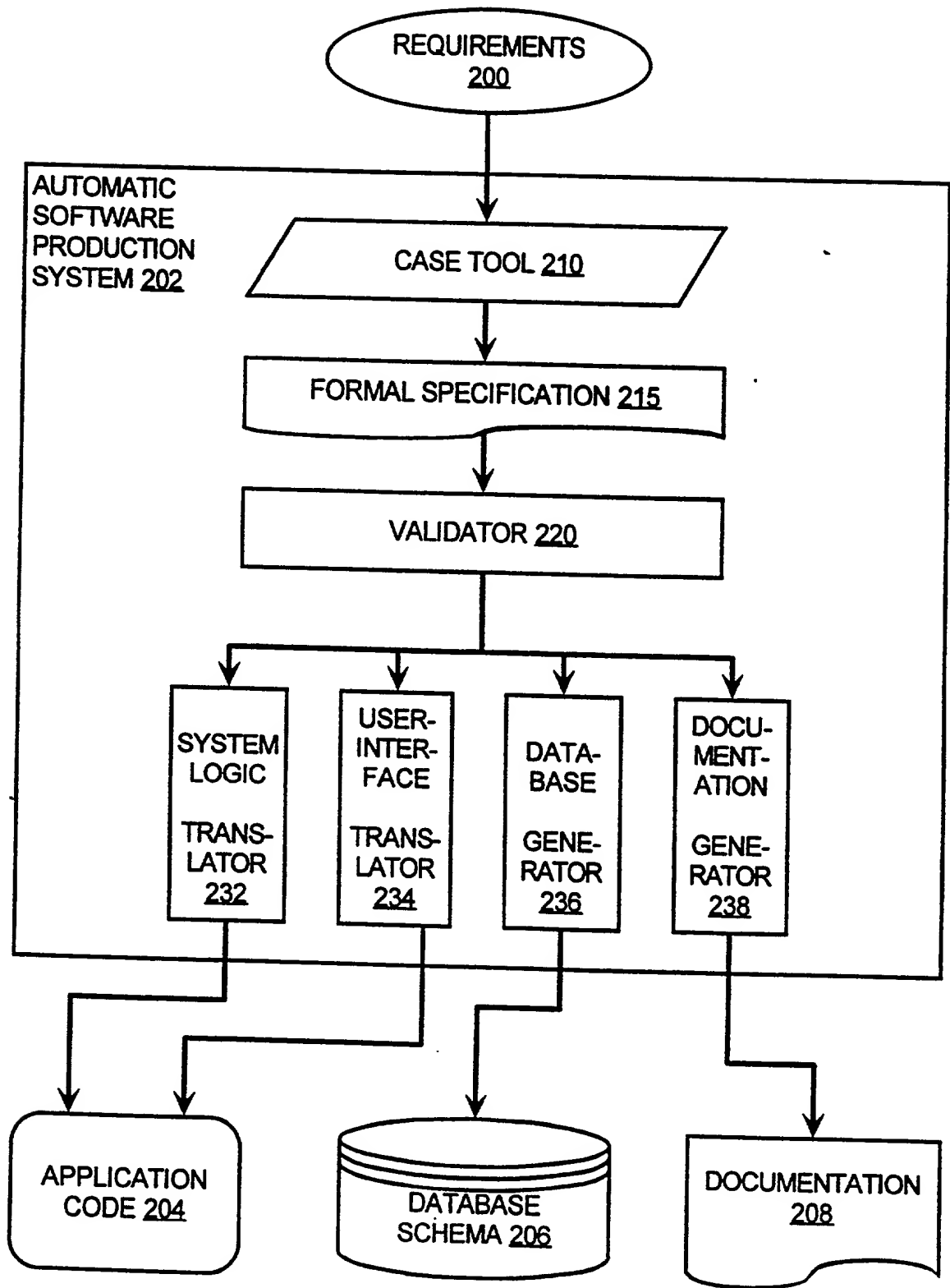


FIG. 1



**FIG. 2**

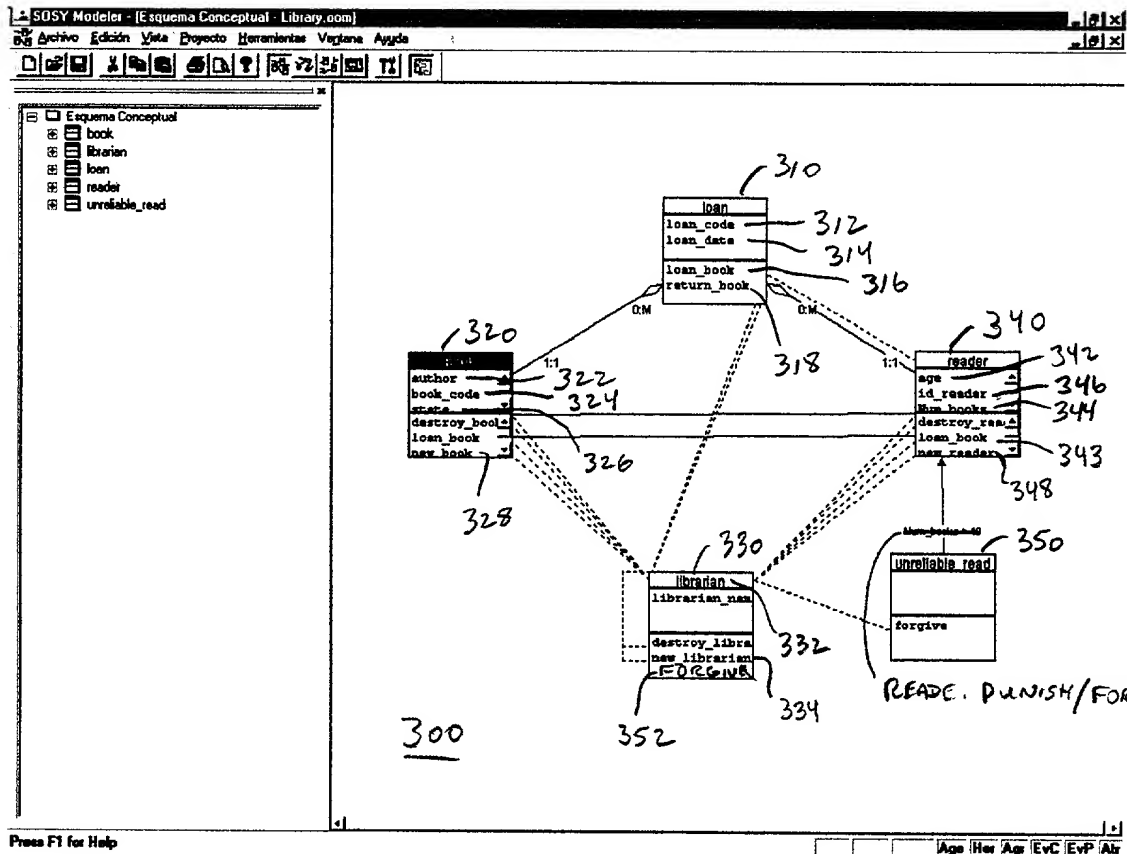


FIG. 3

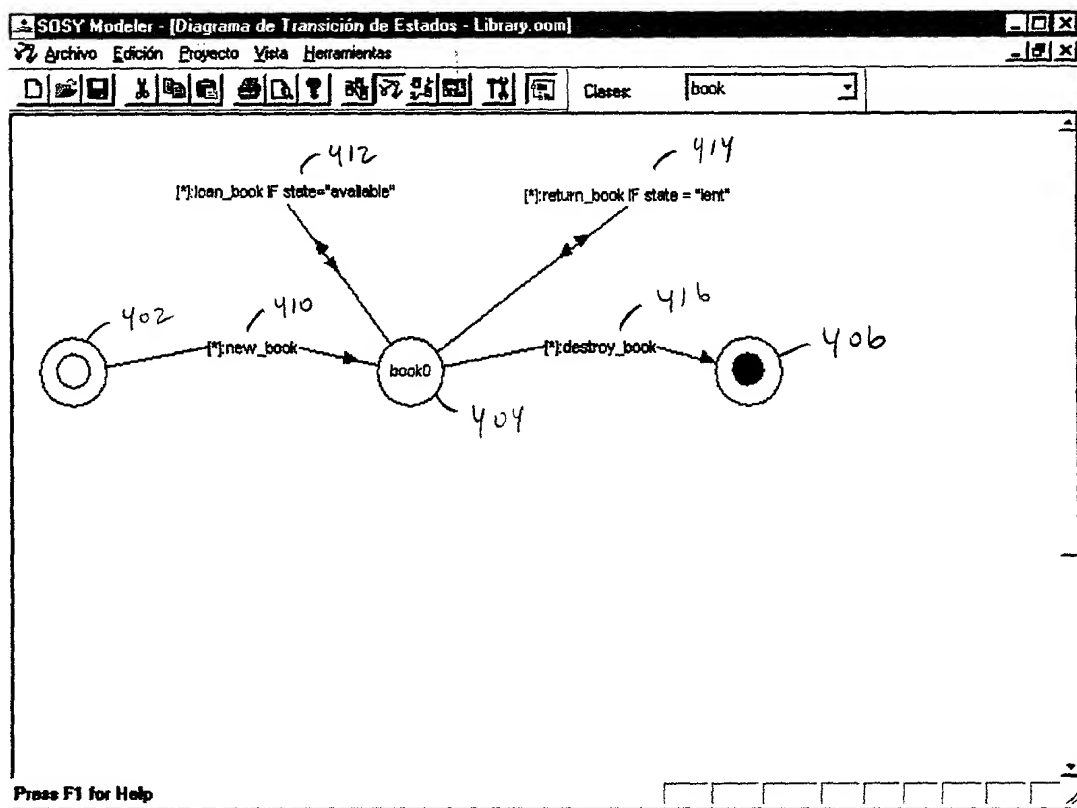


FIG. 4A

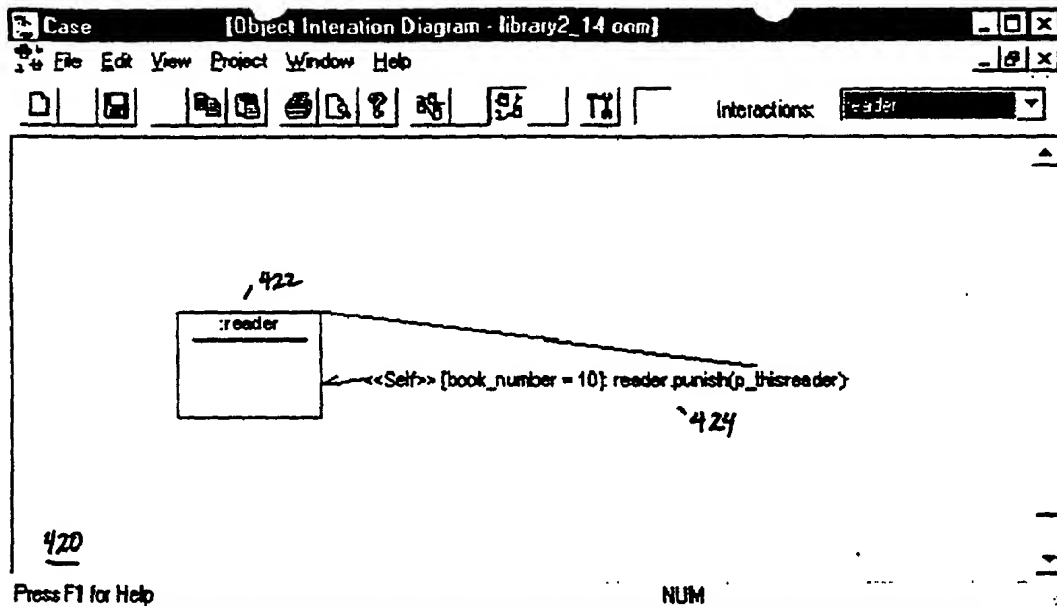


FIG. 4B

Functional Model

Object: reader Attribute: book\_number

Cancel

Event	Effect	Condition
loan_book	1	
return_book	1	

Add Modify Delete

Category

☒ Pushdown ☐ Stats-independent ☐ Discrete-domain

Valuation Details

Event: loan\_book Action type: Increment

Valuation condition:

Effect of the event:

1

FIG. 5

2025 RELEASE UNDER E.O. 14176

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES OF SYSTEM LOGIC TRANSLATORS WILL PERFORM

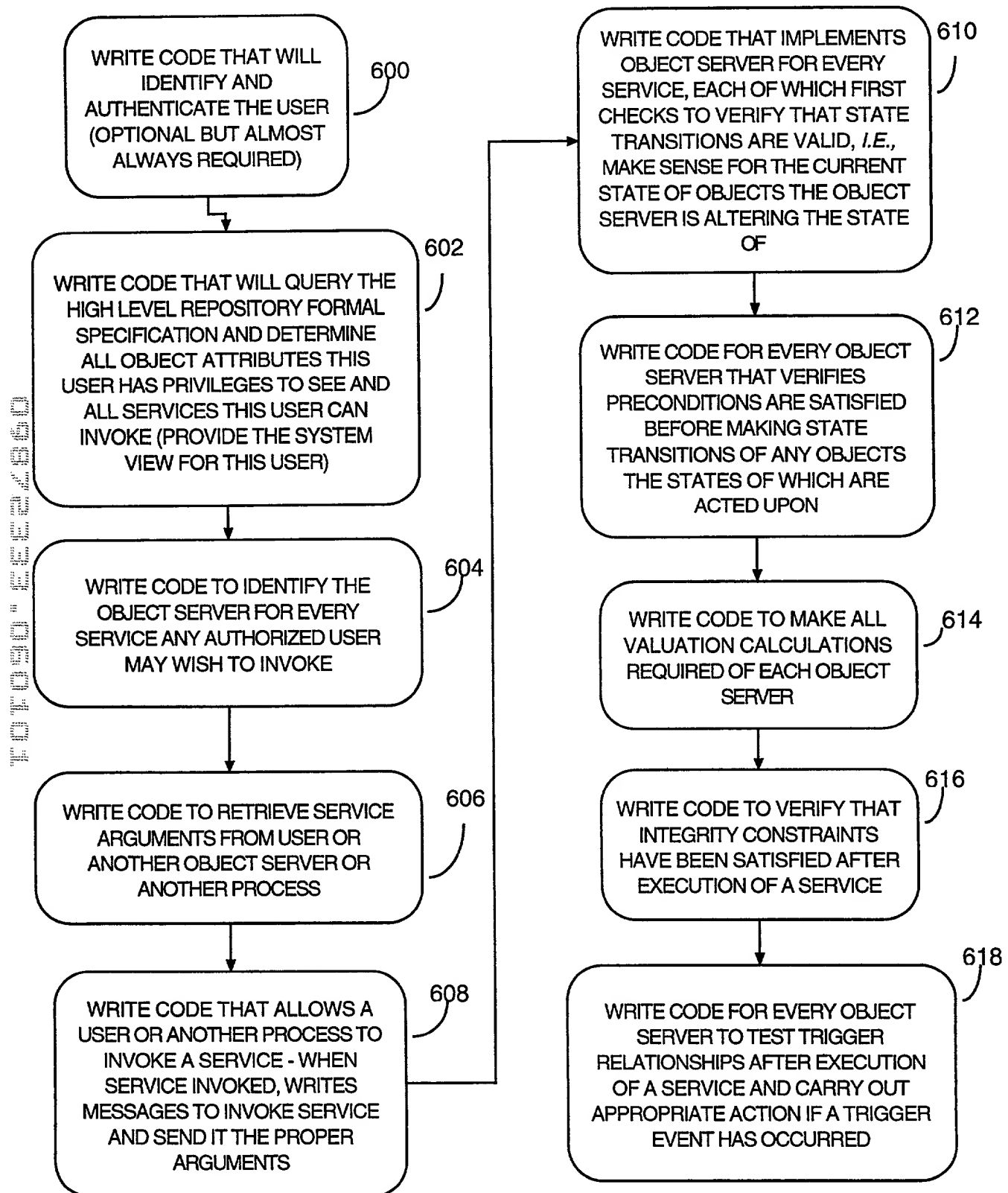


FIG. 6

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE USER INTERFACE  
TRANSLATOR SUBGENUS WILL PERFORM

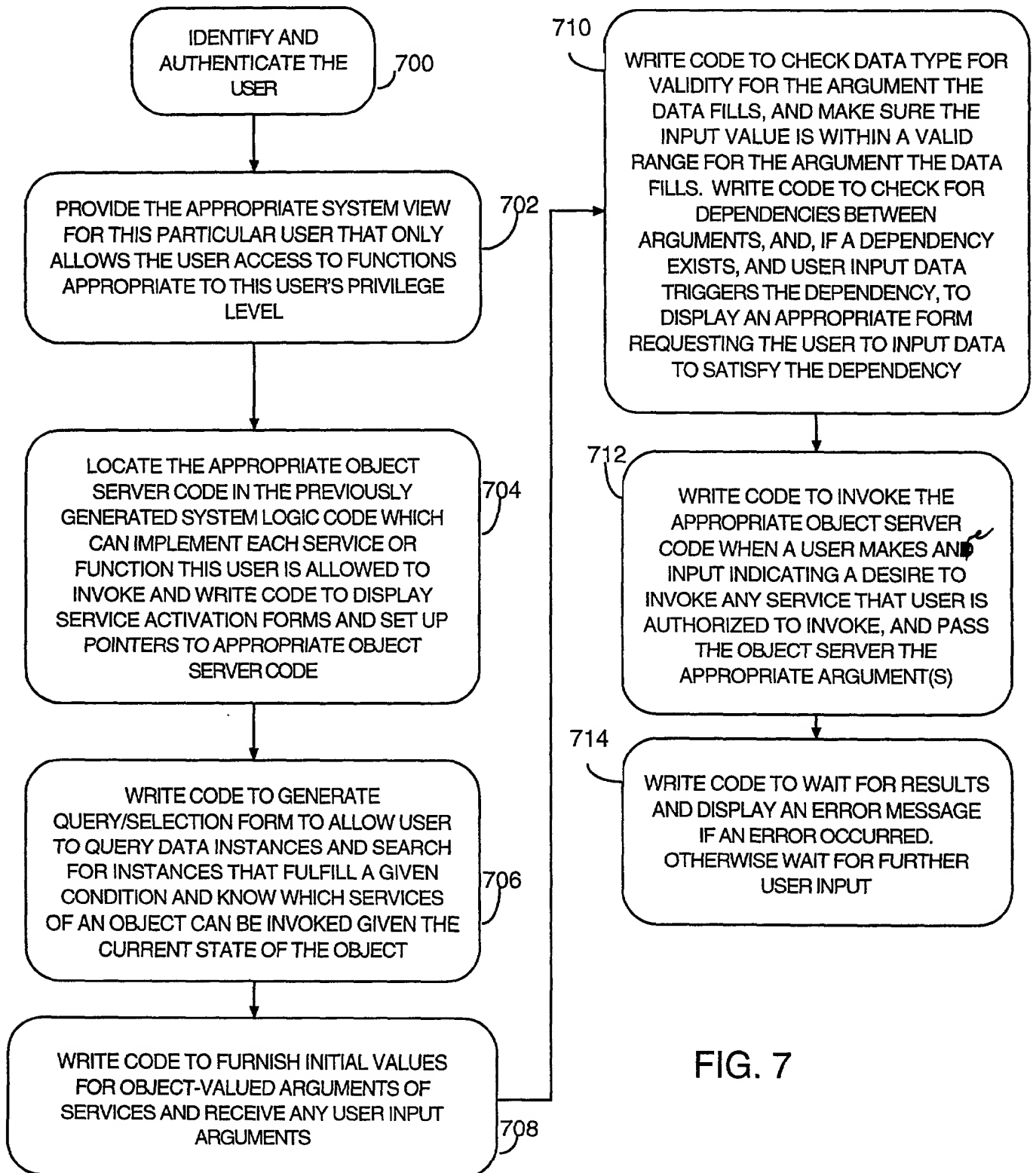


FIG. 7

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DATABASE GENERATOR  
TRANSLATOR SUBGENUS WILL PERFORM

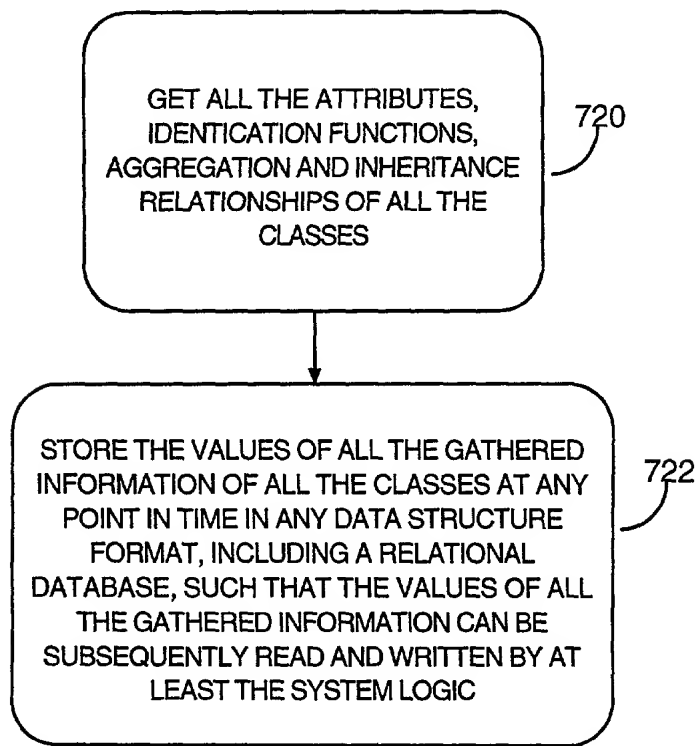
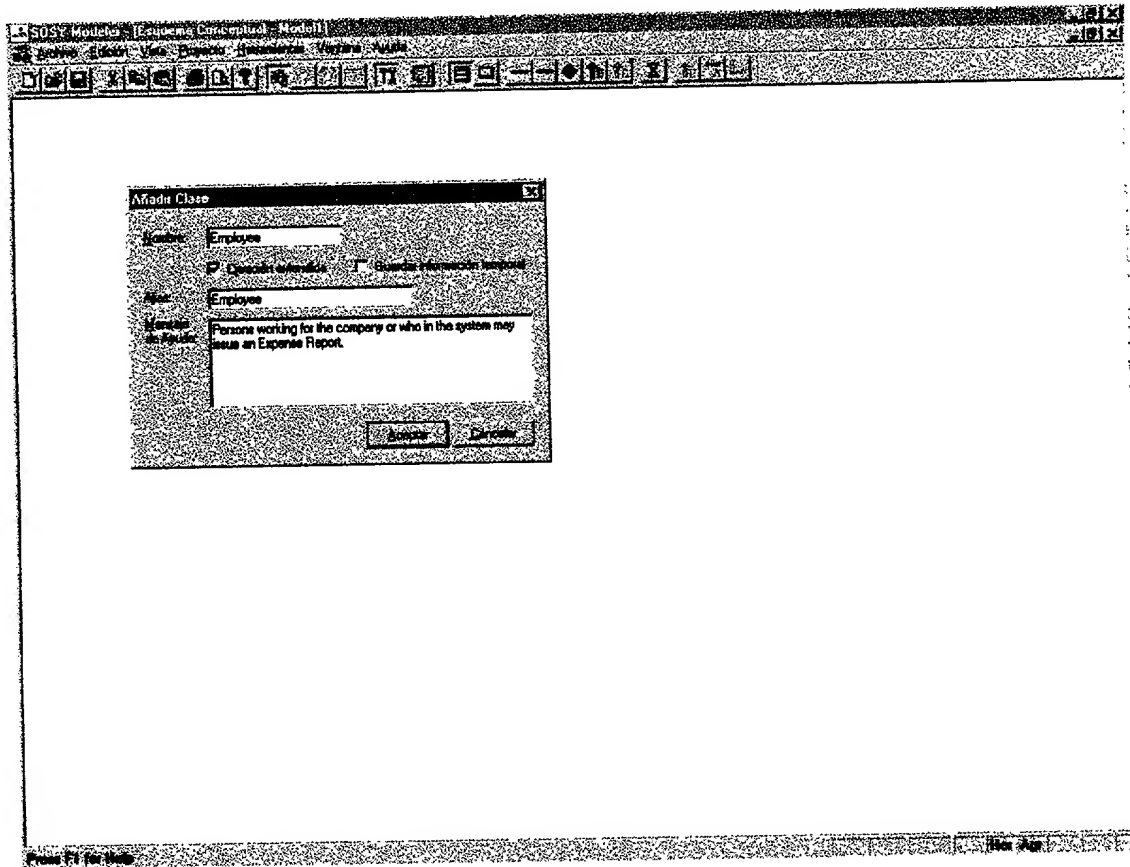


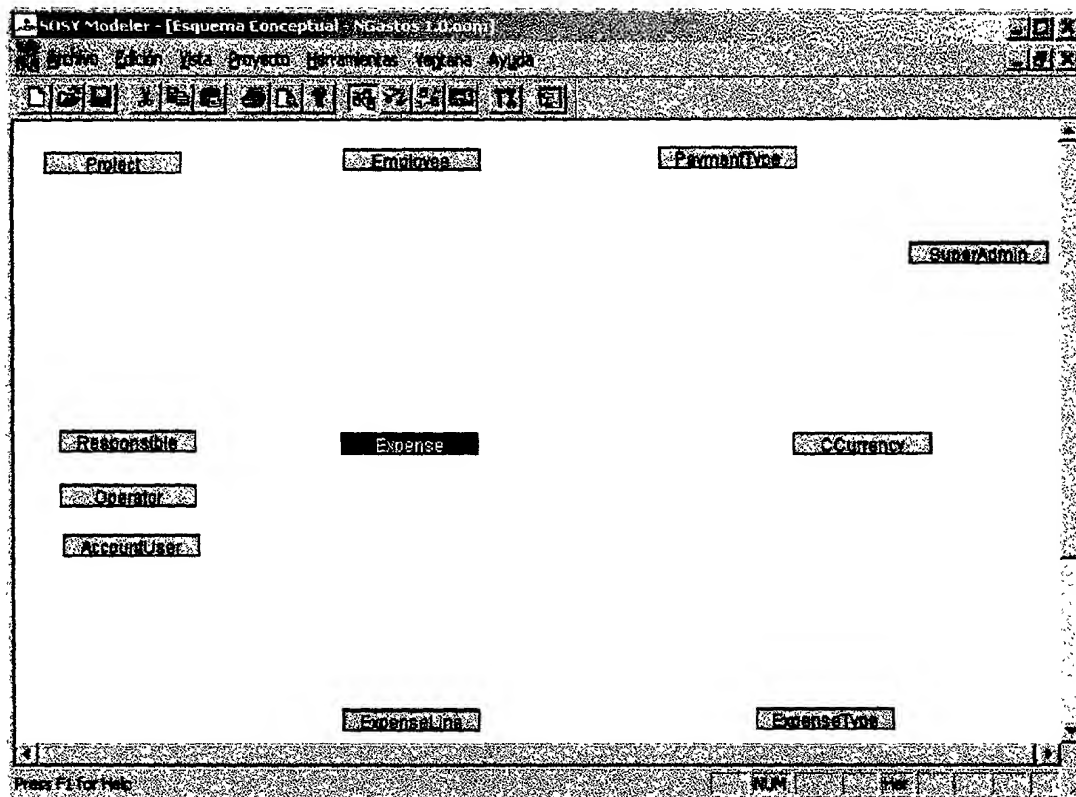
FIG. 8





class creation dialog

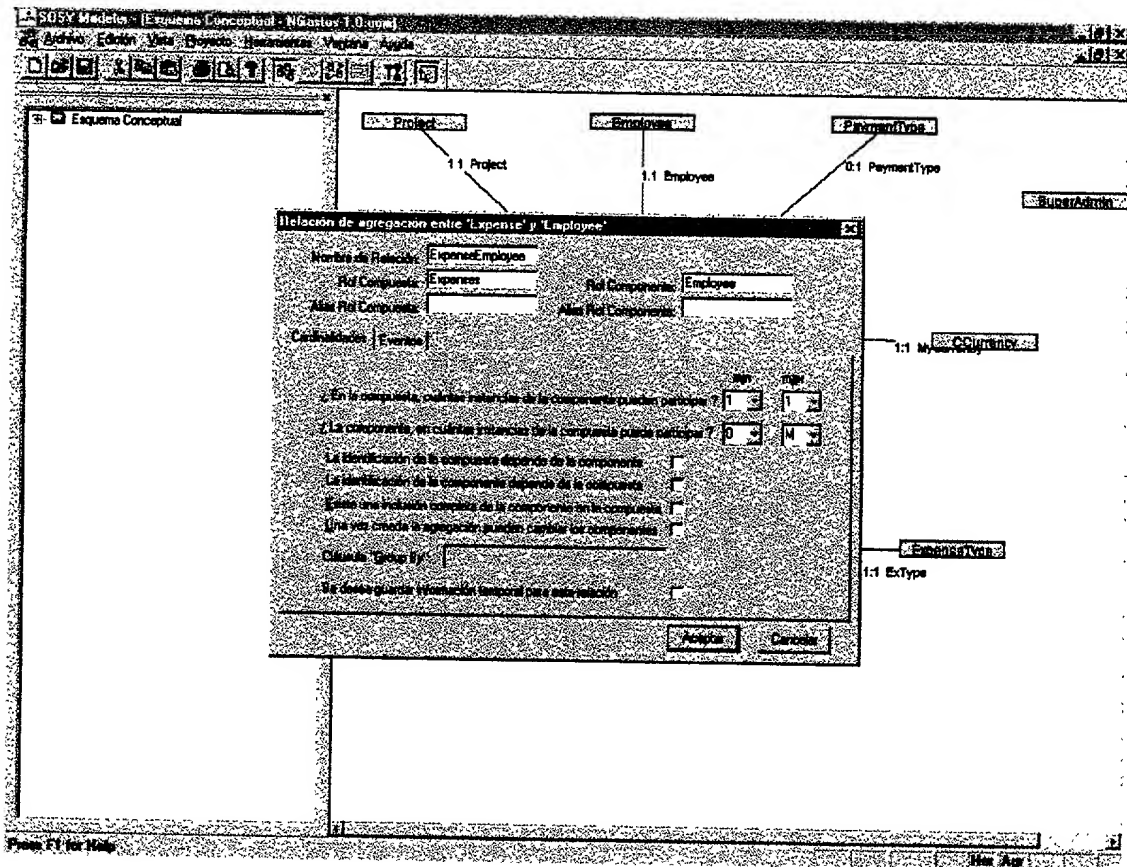
FIG. 9A



DIALOG SHOWING ALL CLASSES NEEDED & CREATED  
IN EXPENSE MANAGEMENT SYSTEM

FIG. 9B

104030-EEW/260

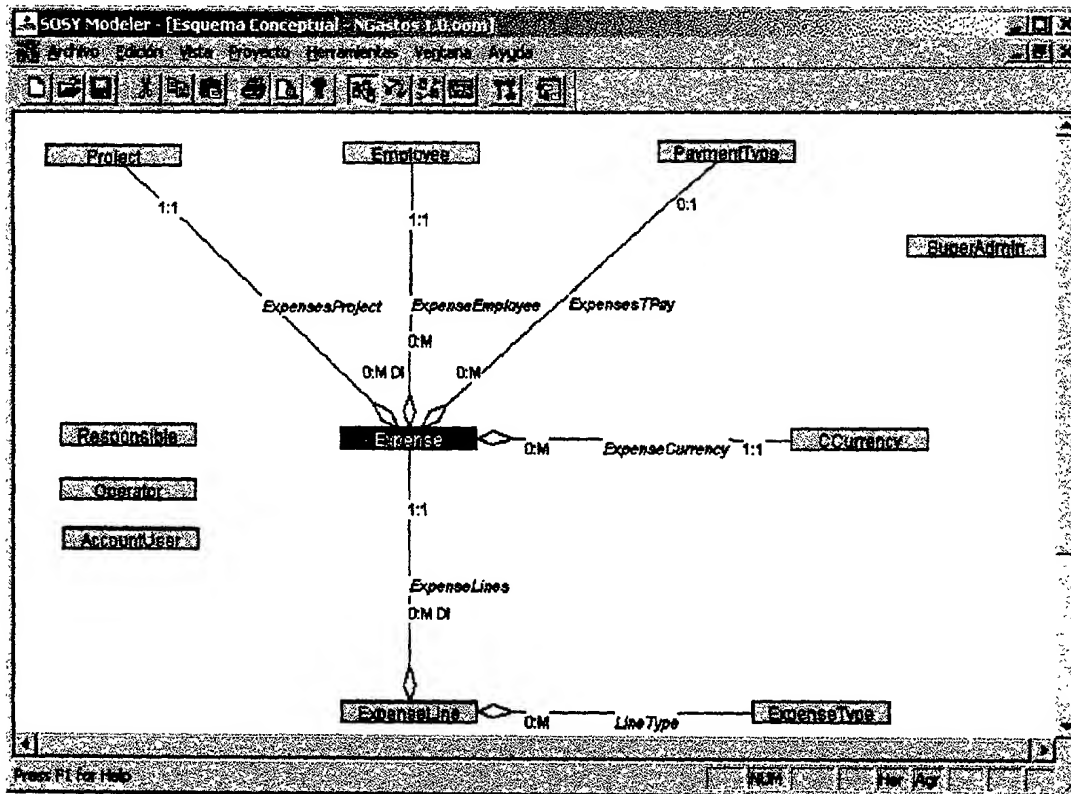


dialog to create and modify relationships between classes

FIG. 90

09872333-060101

figure shows relationships found with all their properties indicated.



GRAPHIC DIALOG TO CREATE  
RELATIONSHIPS BETWEEN CLASSES  
AND GRAPHICALLY SHOW THE  
RELATIONSHIPS SO CREATED

FIG. 10

2025-03-27 10:00:00



Clase					
<b>Atributos:</b>	Services	Derechos de acceso	Restricciones	Agentes	Tareas asociadas
<b>Verificar Transacciones</b>					
<b>Servicios</b>			<b>Parámetros</b>		
Nombre	Características		Nombre	Tipo dato	
newexpense	New	[Añadir]	p_thisExpense	Expense	[Agregar]
deleteexpense	Destroy	[Modificar]	p_Cause	String	[Modificar]
modify		[Borrar]	p_Advances	Real	[Borrar]
close		[Copiar]	p_Exchange	Real	
authorize					
approve					
pay					
rejectautho					
rejectpayment					
InPaymentType	Shared with Payment Type				
ForPaymentType	Shared with Payment Type				
DELETEALL	Tran	[Imprimir]			[Actualizar]
TPAY	Tran	[Notar >>]			[Notar >>]
[<<] [>>]			[<<] [>>]		
<b>Bases de datos</b>	<input type="checkbox"/> Transacción <input type="checkbox"/> New <input type="checkbox"/> Destroy <input type="checkbox"/> Uso interno		<b>Número</b> <input type="text"/> <b>Tamaño</b> <input type="text"/> <b>Alis</b> <input type="text"/>	<b>Tipo dato</b> <input type="text"/> <input type="checkbox"/> Null <input type="checkbox"/> Decimal	
<b>Alias</b>	Edit a Expense Report		Vais por defecto		
<b>Mensajes de Audio</b>	Allows to edit some data of an expense report		Observaciones		
<b>Opciones de acceso</b>	[<<] [>>]		[<<] [>>]		

SERVICES IN CLASS "EXPENSE"  
FIG. 12

[illegible]

Clase

Atributos | Servicios | Derivaciones | Restricciones | Agentes | Transacciones | Relaciones | Generalidades

Transacción: **DELETEALL**

Fórmula:

```
FOR ALL Lines DO Lines.deleteLine( Lines ). deleteExpense( THIS )
```

Acción:

Clase/Obj:

Expense

Agencia:

Servicio: **approve**

Parámetro: **P\_thisExpense**

Inicializar:

☒ Crear Parámetro en la Transacción

Observaciones:

Clase: **Expense**

Aceptar Cancelar

DIALOG TO DEFINE FORMULA FOR "DELETEALL"  
TRANSACTION  
FIG. 13

Class

Albices | Servicios | Derivaciones | Restricciones | Agentes | Transacciones | Relaciones | Generalidades

Estados

Exchange > 0

4

5

Modificar

Eliminar

Formulas

Exchange > 0

Message De Error: Exchange must be greater than zero

Derivaciones

Formula

Oper. Temporal

Condicion1

Oper. Temporal

Condicion2

Message De Error:

Class: Expense

Aceptar

Cancelar

INTEGRITY CONSTRAINTS OF EXPENSE CLASS  
FIG. 14



The value of the attribute "Cause" will be loaded with the value of the argument "p\_Cause" of the event "modify" when "modify" was executed.

The screenshot shows a dialog box titled "Modelo Funcional". At the top, there are two dropdown menus: "Clase" (set to "Expense") and "Atributo" (set to "Cause"). To the right of these are buttons for "Aceptar", "Cancelar", "Añadir", "Modificar", and "Borrar". Below the dropdowns is a table with three columns: "Evento", "Efecto", and "Condición". The first row contains "modify", "p\_Cause", and is empty. Below the table is a horizontal scrollbar. Underneath the table is a section labeled "Categoría" with three radio buttons: "Cardinal", "De Estado" (which is selected), and "De Situación". Below this is a section titled "Detalles de Evaluación". It contains a dropdown for "Evento" (set to "modify"), a checkbox labeled "Inferir para el resto de atributos" (which is unchecked), a text field for "Condición de evaluación" (containing "724"), a text field for "Efecto del evento" (containing "p\_Cause"), and a text field for "IF" (which is empty). The text "726" is handwritten next to the "Efecto del evento" field.

DIALOG BOX TO CREATE EVALUATION OF  
"CAUSE" ATTRIBUTE WITH THE  
"MODIFY" EVENT TO FORM PART OF  
FUNCTIONAL MODEL  
FIG. 15

Clase

Clase servidora:

Servicios:

Servicio
newexpense
modify
close
authorize
rejectauth
DELETEALL

Clase AccountUser agente de:

Servicio	Temporalidad
Expense.approve	No
Expense.rejectpayment	No
Expense.TPAY	No

Clase AccountUser tiene visibilidad sobre:

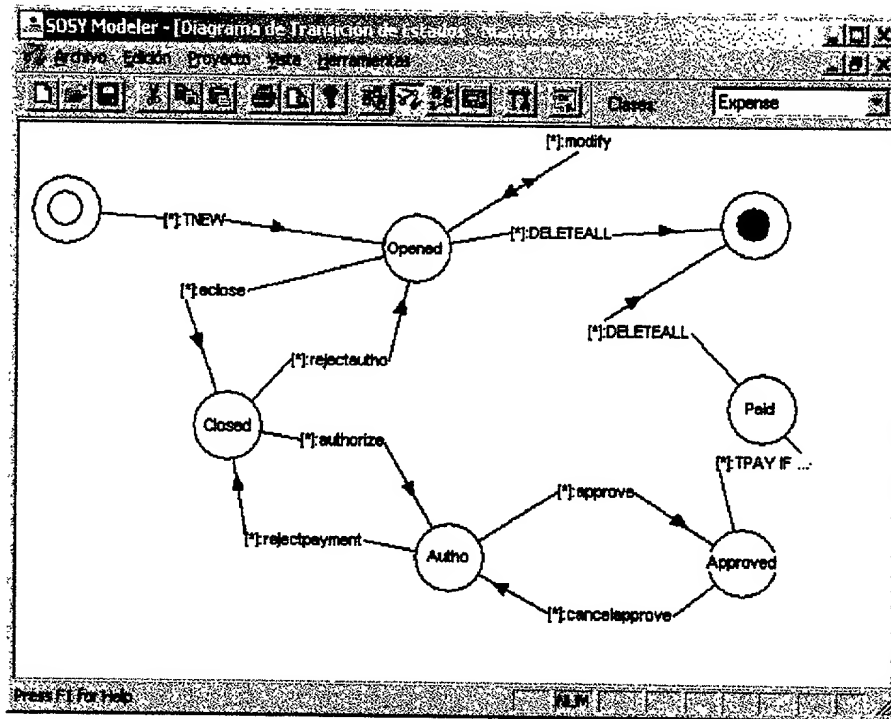
Atributos:

Atributos
Cause
AuthComments

Clase:

AGENT RELATIONSHIP DIALOG THAT CAN BE  
 USED TO SET WHICH SERVICES "ACCOUNTUSER"  
 CAN ACCESS AND VISIBILITY OF CLASS  
 ATTRIBUTES FOR THIS USER

FIG. 16



STATE TRANSITION DIAGRAM FOR CLASS "EXPENSE"

FIG. 17

According to last paragraph of Procedure, if the Advances are greater than total expenses, the system must force the confirmation of the account user. It is expressed as a precondition in the "TPAY" transaction. Next figure shows it.

The image shows a screenshot of a software dialog box titled "Transición". It contains several fields and buttons:

- Origen:** A dropdown menu with "Approved" selected.
- Destino:** A dropdown menu with "Paid" selected.
- Buttons:** "Aceptar" and "Cancelar" are located in the top right corner.
- Detalle:** A section containing:
  - Agente:** A dropdown menu with "AccountUser" and "SuperAdmin" options.
  - Servicio:** A dropdown menu with "TPAY" selected.
- Precondición:** A text area containing the logical expression: "Balance > 0 OR ps\_ReturnAdvance = TRUE".
- Condición de control:** An empty text area.
- Mensaje en caso de Error:** A text area containing the message: "Check the advanced money excess".

DIALOG BOX TO MODEL PRECONDITION

FIG. 18

Conjunto de Visualización

Nombre: CV\_Expense Limpia Borrar

Atributos a visualizar:

Atributo	Tipo dato
Project.ProjectName	String
Employee.EmpName	String
Employee.EmpSur...	String
Status	Int
AuthoDate	Date
PaymentDate	Date
TotExpenses	Real
Balance	Real

<< Añadir  
Eliminar >>  
Subir  
Bajar  
Agregar

Atributos:

Atributo	Tipo dato
Cause	String
AuthoDate	Date
AuthoComments	String
PaymentDate	Date
PayComments	String
TotExpenses	Real
TotExpensesCur	Real
Advances	Real
AdvancesCur	Real
Exchange	Real
Balance	Real
BalanceCur	Real

Class: Expense Aceptar Cancelar

DIALOG BOX USED BY SOSY MODELER  
TO ESTABLISH A SET OF ATTRIBUTES  
TO BE DISPLAYED FOR THE "EXPENSE" CLASS

FIG. 19

**Filtro**

Filtro:  Alias:

Fórmula:

Observ.:

**Variables**

Nombre	Alias	Tipo dato	Tipo estilo	Estilo	
vf_Project	Project	Project	Sel. Población		<input type="button" value="Nueva"/> <input type="button" value="Modificar"/> <input type="button" value="Borrar"/>
vf_Employee	Employee	Employee	Sel. Población		
vf_DateIniIssue	Initial Issuing Date	Date			
vf_DateEndIssue	Final Issuing Date	Date			
vf_DateIniApp	Initial Approving D...	Date			

Tipo: ☒ Simple ☐ Objeto-valorado

Nombre:  Estilo de introd.:

Alias:  Estilo de selección:

Tipo de dato:

Clase:

DIALOG BOX USED BY SOSY MODELER  
TO ESTABLISH THE SEARCHING CRITERIA  
FOR THE EXPENSE CLASS AND TO ESTABLISH  
THE FILTER FORMULA <sup>TO USE</sup> AND THE VARIABLES  
TO REQUEST THE USER TO ENTER

FIG. 20

FLOWCHART OF THE FUNCTIONS THAT ALL SPECIES IN THE DOCUMENTATION  
GENERATOR TRANSLATOR SUBGENUS WILL PERFORM

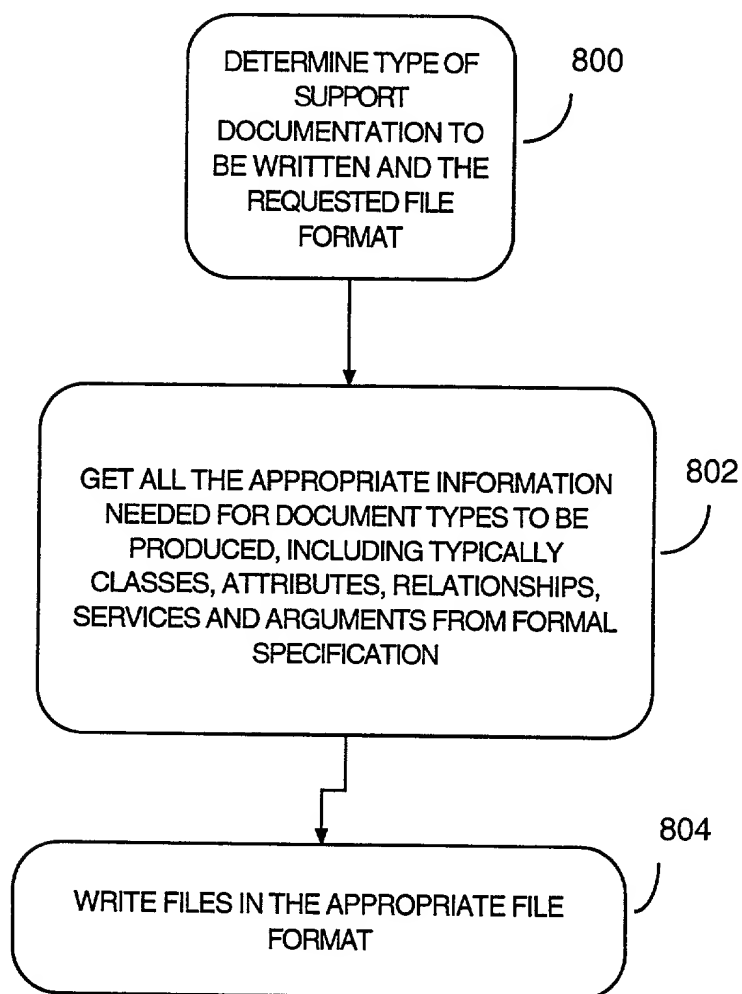


FIG. 21